University of Gdańsk

Subject card

Subject name and code	Habitat science, PG_00079855						
Field of study	Biology						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2024/2025		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		1.0		
Learning profile	academic		Assessment form				
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Julita Minasiewicz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	15		0.0		0.0	15
Subject objectives	To learn the definition of habitat and other basic ecological concepts. To demonstrate the cause and effect relationships between habitat and biocenosis. To define and characterise soil as a multifunctional component of terrestrial ecosystems. To acquire the ability to use different habitat typologies and their practical application in environmental conservation.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[BIOLL3_U02] the graduate is able to make observations and carry out basic physical, biological and chemical measurements in the field or laboratory, individually and in teams	make observations and perform basic physical measurements in the field, biological and chemical measurements related to habitat research	[SU2] presentation/project/paper/ report
[BIOLL3_K01] the graduate is ready to evaluate his own knowledge and understands the need for continuous learning and development and is open to new ideas	strives to complete and update his/ her knowledge in the field of habitat science	[SK8] observation of student's independent or team work
[BIOLL3_U03] the graduate is able to perform simple tasks or research expertise typical of the biological sciences under the guidance of a mentor	apply basic apparatus and research tools used in habitat science and maintain the correct sequence of operations in field work	[SU6] demonstration of practical skills
[BIOLL3_W05] the graduate knows the rules and describes the mechanisms of life at the population, biocenosis and ecosystem levels, as well as the temporal and spatial determinants of biodiversity	describes phenomena and processes occurring in the habitat (primarily the soil) and the interactions between soil, climate and vegetation	[SW1] oral statement/ conversation/discussion
[BIOLL3_W10] the graduate knows and understands to an advanced degree the development and current state of knowledge and the latest trends in biology, as well as their relationship with other natural disciplines	is familiar with the development and current state of knowledge and the latest trends in habitat science and soil science, and how they relate to other natural sciences disciplines	[SW1] oral statement/ conversation/discussion
[BIOLL3_W15] the graduate knows and understands to an advanced degree the rules, methods and techniques of field research in the natural environment and the possibilities of their use in nature conservation	presents the basic principles, methods and techniques of habitat-based field surveys and how they can be used in nature conservation.	[SW2] presentation/project/paper/ report
[BIOLL3_U13] the graduate is able to present his own ideas and adequate argumentation in the context of selected theoretical and practical perspectives	in a specialist discussion, is able to use scientific language typical for biological sciences (B_U13)	[SU1] oral statement/conversation/ discussion
[BIOLL3_U12] the graduate is able to use Polish and foreign language, specialized for biology, in a way that is understandable and accessible to both specialists and non-specialists	prepare written reports on selected research problems in the field of habitat science	[SU2] presentation/project/paper/ report
[BIOLL3_K08] the graduate is ready to be honest, reliable, apply the principles of savoir-vivre in scientific and professional work	demonstrates responsibility for the safety of his/her own work and that of others takes into account the risks arising from the applied research techniques (B_K03) demonstrates responsibility for the safety of his/her own work and that of others, taking into account the risks of the research techniques used	[SK8] observation of student's independent or team work
[BIOLL3_K03] the graduate is ready to organize the work of a small team and to work effectively in a team environment	demonstrates activity and perseverance in undertaking individual and team activities in the field of habitat science	[SK8] observation of student's independent or team work

Subject contents

Physical-geographical determinants of terrestrial habitat properties. The formation of soils and their properties. Influence of phytocoenoses on the functioning and diversity of soils. Recognition of selected soil types and the basis of their study. Forest habitat typology and its practical application.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
written coursework assignment	51.0%	100.0%

Recommended reading	Basic literature	• Dobrzański B., Zawadzki S. 1995. Gleboznawstwo. PWRiL, Warszawa. • Kossakowski-Cezak U. 2000. Wstęp do meteorologii i klimatologii. Wyd. III poprawione i poszerzone. Uniwersytet • Warszawski, Wydz. Geografii i Studiów Regionalnych, Zakład Klimatologii, Warszawa. • Mąkosa K., Dzierzbicki J., Gromadzki A., Kliczkowska A., Krzyżanowski A. 1994. Zasady kartowania siedlisk leśnych. • Wyd. IBL, Warszawa. • Mocek A., Drzymała S., Maszner P. 1997. Geneza, analiza i klasyfikacja gleb. Wyd. Akademii Rolniczej im. A. Ciesz • kowskiego w Poznaniu, Poznań. • Prusinkiewicz Z. 1999. Środowisko i gleby w definicjach. Oficyna Wydawnicza Turpres, Toruń. • A.2. studiowana samodzielnie przez studenta • Bednarek R., Dziadowiec H., Pokojska U., Prusinkiewicz Z. 2004. Badania ekologiczno-gleboznawcze. Wyd. Naukowe • PWN, Warszawa.
	Supplementary literature	Brożek S., Zwydak M. 2003. Atlas gleb leśnych Polski. Centrum informacyjne Lasów Państwowych.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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